

Micro Cassette Tape Recorder

with Voice Activation



Owner's Manual Please read before using this equipmen

☐ The FCC Wants You to Know

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television

© 2001 RadioShack Corporation. All Rights Reserved. RadioShack and RadioShack.com are trademarks used by RadioShack Corporation. reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult your local RadioShack store or an experienced radio/TV technician for help.
- If you cannot eliminate the interference, the FCC requires that you stop using your recorder.

Changes or modifications not expressly approved by RadioShack may cause interference and void the user's authority to operate the equipment.

□ Contents

The FCC Wants You to Know	2
Contents	4
Features	6
A Quick Look at Your Recorder	7
Traffic Safety Connecting an External Microphone	9 10 11 12
Loading a Microcassette Tape Recording	20

Tape Tips	21
Storing Cassette Tapes	21
Restoring Tape Tension and	
Sound Quality	21
Erasing Tapes	22
Preventing Accidental Erasure	22
Care	24
Cleaning the	
Tape-Handling Parts	24
Specifications	26

Contents

☐ Features

Your RadioShack Micro Cassette Tape Recorder is ideal for quick note taking. Its light weight and ultra-thin size makes it easy to slip into a pocket, purse, or briefcase. You can use it at school, at business conferences, for dictation in the office, or anywhere on the go! You can record manually or set the recorder so sound activates recording.

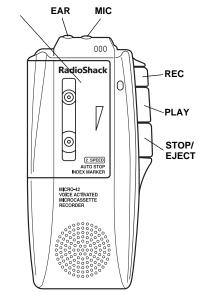
Voice-Activated Recording (VOX) — lets you set the tape recorder so it records when it picks up sound and stops a few seconds after the sound stops.

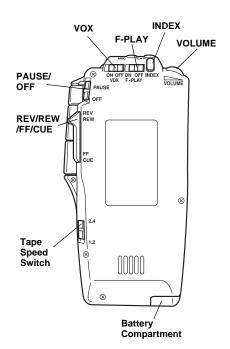
Quick Record — instantly changes from playback to recording.

Auto Stop — stops the tape when the recorder reaches the end of the tape.

A Quick Look at Your Recorder

Cassette Compartment Door







CONNECTING POWER

Using Battery Power

Your recorder requires one AAA battery (not supplied) for power. For the best performance and longest life, we recommend a RadioShack alkaline battery.

Caution: Use only a fresh battery of the required size and recommended type.

- 1. Slide the battery compartment cover in the direction of the arrow.
- Place the battery in the compartment as indicated by the polarity symbols (+ and -) on the case beneath the opening.
- 3. Replace the cover.

When the recorder stops operating properly, replace the battery.

Warning: Dispose of old batteries promptly and properly. Do not burn or bury them.

Preparation

9

Caution: If you do not plan to use the recorder for several days, remove the battery. Batteries can leak chemicals that can destroy electronic parts.

Using AC or DC Power

You can power the recorder from AC power using the supplied power adapter and an AC adapter with a size A Adaptaplug[™] (not supplied), or from a vehicle's battery using the supplied power adapter and a DC adapter with a size A Adaptaplug. Both are available at your local RadioShack store.

Cautions:

You must use a Class 2 (for AC power) power source that supplies 3 volts DC and delivers at least 200 mA. Its center tip must be set to positive and its plug must fit the recorder's power adapter jack. Using an adapter that does not meet these specifications could damage the recorder or the adapter.

 Always connect the adapter to the recorder before you connect it to power. When you finish, disconnect the adapter from power before you disconnect it from the recorder.

- 1. If necessary, set the adapter's voltage switch to 3V.
- 2. Attach the Adaptaplug to the AC adapter's cord with the tip set to positive (+).
- Open the battery compartment and insert the power adapter so that the wire attached to the dummy battery rests in the adjustable groove under the battery compartment.
- 4. Close the compartment cover.
- 5. Insert the adapter's barrel plug into the recorder's power adapter jack.
- 6. Plug the adapter's other end into the power source.

CONNECTING AN EARPHONE

For private listening, you can use an optional mono earphone with a $^3/_{32}$ -inch (2.5 mm) plug. You can also use an earphone to monitor what the recorder picks up through the internal or an external micro-

phone. Your local RadioShack store carries a wide selection of earphones.

Insert the earphone's plug into the recorder's **EAR** jack. The built-in speaker automatically disconnects.

Listening Safely

To protect your hearing, follow these guidelines when you use an earphone.

- Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable level.
- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.
- Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

Traffic Safety

 Do not wear an earphone while operating a motor vehicle or riding a bicycle. This can create a traffic hazard and could be illegal in some areas.

 Even though some earphones let you hear some outside sounds when listening at normal volume levels, they still can present a traffic hazard.

CONNECTING AN EXTERNAL MICROPHONE

You can use an optional microphone with a subminiature $^{3}/_{32}$ -inch (2.5 mm) plug to extend the recording range. Your local RadioShack store carries a wide selection of microphones.

Insert the microphone's plug into the recorder's **MIC** jack. The built-in microphone automatically disconnects.

ATTACHING THE WRIST STRAP

Thread the strap's small loop beneath the metal pin located in the lower right-hand corner of the recorder. Slip the larger end of the strap through the smaller loop. Pull the loop to tighten it around the pin.

Note: Use a straightened paper clip to hook the smaller loop if you have difficulty threading the loop beneath the pin.



LOADING A MICROCASSETTE TAPE

Note: We recommend MC-60 microcassette tapes for up to two hours of recording/playback time, or MC-90 micro cassette tapes for up to three hours of recording/playback time. We do not recommend long-playing cassette tapes such as MC-120s, because they are extremely thin and can easily tangle in the playback mechanism.

- Use a pencil to turn the cassette's hub and remove any tape slack. Avoid touching the tape.
- 2. Press **STOP/EJECT.** The cassette compartment door opens.
- Insert the microcassette into the door's guides with the tape's open edge facing out and the full reel positioned toward the top of the recorder.
- 4. Close the door.

RECORDING

Cautions:

- Do not change the tape speed while recording.
- Do not force down REC when a cassette erase-protection tab is not in place. See "Erasing Tapes" on Page 22.

Voice Activated (VOX) Recording

Follow these steps to have the recorder start and stop recording automatically based on sound it detects.

Operation

- 1. Slide VOX to ON.
- 2. Load a tape.
- 3. Set the tape speed switch on the side of the recorder as follows:
 - To double the tape's recording/ playback time, slide the tape speed switch to 1.2. This setting allows 120 minutes of total recording/playback time on an MC-60 tape, or 180 minutes on an MC-90 tape.
 - For better sound quality, slide the tape speed switch to 2.4. This setting allows 60 minutes of total recording/playback time on an MC-60 tape, or 90 minutes on an MC-90 tape.
- 4. Press REC to begin recording. Both REC and PLAY lock down, and the record indicator next to the MIC jack lights. Recording begins when the recorder picks up sound and stops a few seconds after the sound stops
- 5. To temporarily stop recording, slide PAUSE away from OFF. To resume recording, slide PAUSE back.

Notes:

- The VOLUME setting determines the sound level that activates the VOX circuit and starts recording. At higher settings, a softer sound starts VOX recording. At lower settings, a louder sound starts VOX recording. At extremely low VOL-UME settings, VOX might not operate.
- The built-in automatic level control (ALC) automatically sets the recording level once recording starts.
- Recording stops when the tape reaches its end. To stop it sooner, press STOP/EJECT.

Note: When the tape reaches the end, the motor stops automatically. The tape handling parts, however, are still engaged. When recording or play stops, always press **STOP/EJECT** to disengage the tape handling parts.

Manual Recording

1. Slide **vox** to **off**.

Operation

- 2. Load a tape.
- Slide the tape speed switch to 1.2 to double the recording time, or to 2.4 for better sound quality.
- Press REC. PLAY also locks down. Recording starts and the built in automatic level control sets the recording level.
- For maximum clarity, place the recorder as close to the sound source as possible, with nothing between the source and the recorder that might block the sound.
- To temporarily stop recording, slide PAUSE away from OFF. To resume recording, slide PAUSE back.
- Recording automatically stops when the tape reaches its end. To stop recording sooner, press STOP/EJECT.

Using Quick Record

To go directly from playback to recording while a tape is playing, press **REC** (without pressing **STOP/EJECT** first). This is handy when you want to add additional comments to an existing recording.

PLAYING A TAPE

- 1. Load the microcassette tape.
- Slide the tape speed switch to the speed (1.2 or 2.4) used when the tape was recorded.
- To listen to the tape at normal speed, press PLAY. To listen to the tape at about 30% faster than normal speed, slide F-PLAY to ON.
- 4. Adjust **VOLUME** to a comfortable listening level.
- 5. Press **STOP/EJECT** to stop playback.

Rewinding/Fast-Forwarding

Slide **REV/REW FF/CUE** to **REV/REW** to rapidly rewind a tape, or to **FF/CUE** to fast-forward a tape.

To hear the tape play at a faster speed as it fast-forwards or rewinds, slide REV/REW FF/CUE to REV/REW or FF/CUE during playback. When you release the switch, normal playback resumes.

Caution: To protect the tape-handling parts, press STOP/EJECT or slide REV/

REW FF/CUE to the center when the tape reaches the end.

Using Quick Review

During recording, slide **REV/REW FF/CUE** to **REV/REW** to hear a portion of what you have just recorded without first pressing **STOP/EJECT** and **PLAY**. Press **REC** to resume recording.

Using Index Markers

Use **INDEX** to add a special tone to a tape so you can quickly find that point using Quick Review. See "Using Quick Review".

- Press INDEX to mark the beginning of a recorded section. The record indicator flashes while the recorderrecords an index marker tone on the tape.
- 2. Press **INDEX** to mark each desired reference point.
- 3. Press PLAY to begin play.
- 4. Slide REV/REW FF/CUE to REV/REW to rapidly review the tape. The tape rewinds, and at each index marker, you hear the index tone, letting you stop at desired points on your tape.



STORING CASSETTE TAPES

Do not expose microcassette tapes to high temperatures, high humidity, dust, dirt, motors, transformers, or other sources of strong magnetic fields.

RESTORING TAPE TENSION AND SOUND QUALITY

After you play a cassette tape several times, the tape might become tightly wound on the reels. This can cause playback sound quality to deteriorate.

To restore the sound quality, fast-forward the tape from the beginning to the end of one side, then completely rewind it. Then loosen the tape reels by gently tapping each edge of the cassette on a flat surface.

Caution: Be careful not to damage the cassette when tapping it. Do not touch the exposed tape or allow any sharp objects near the cassette.

ERASING TAPES

To record over a cassette tape, simply record as usual. The cassette deck records over the previous recording.

You can quickly erase both sides of a cassette tape using a RadioShack bulk tape eraser.

Note: If you use metal or high-bias type tape, the recorded sound might not be erased properly.

PREVENTING ACCIDENTAL ERASURE

Cassette tapes have two erase-protection tabs, one for each side. When a tab is in place, you can record on that side.

To prevent accidental erasure of a tape recording, use a screwdriver to remove one or both of the cassette tape's erase-protection tabs. This prevents **REC** from being pressed.

If you later decide to record on a tape side after you have removed the erase-protection tab, place a piece of strong plastic tape over that side's erase-protection hole. Be sure you cover only the hole originally covered by the erase-protection tab.

Caution: Removing the erase-protection tabs does not prevent a bulk eraser from erasing a cassette tape.

☐ Care

Keep the recorder dry; if it gets wet, wipe it dry immediately. Use and store the recorder only in normal temperature environments. Handle the recorder carefully; do not drop it. Keep the recorder away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the recorder's internal components can cause a malfunction and might invalidate its warranty. If your recorder is not performing as it should, take it to your local RadioShack store for assistance.

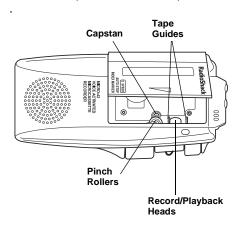
CLEANING THE TAPE-HANDLING PARTS

Dirt, dust or particles of the tape's coating can accumulate on the tape heads and other parts that the tape touches. This can greatly reduce the performance of the cassette player. After every 20 hours of tape player operation, follow these steps to clean the tape-handling parts or use a RadioShack cassette deck cleaning kit.

1. Remove the batteries and disconnect any other power source.

Open the cassette compartment door and press PLAY to expose the tapehandling parts.

Use a cotton swab dipped in denatured alcohol or tape head cleaning solution to clean the tape guides, record/play head, erase head, pinch roller, and capstan.



 When you finish cleaning, press STOP/EJECT and close the cassette compartment door. Then reconnect power.

Note: Your local RadioShack store carries a full line of cassette deck cleaning supplies.

25

□ Specifications

Tape Type Microcassette
Tracks 2 Tracks, 1 Channel Monaural
Drive System Capstan Drive
Tape Speed 2.4 cm/sec. (15/16 ips) and 1.2 cm/sec. (15/32 ips)
Recording Time (with MC-60 Microcassette): 2.4 cm/sec
Practical Max. Output 110 mW
Fast Play Speed: 2.4 cm/sec. +30% 1.2 cm/sec. +35%
Frequency Response 400–4,000 Hz at 2.4 cm/sec.
Microphone Sensitivity: Automatic Level Adjustment in Record Mode
Power Sources:
Internal Battery 1.5 V DC, One AAA Battery
AC Power 120V with AC Adapter
Vehicle Battery 12V with DC Adapter
Dimensions (HWD) 4.6 \times 2.5 \times 0.7 in. (117 \times 52 \times 18 mm)
Weight (with Battery)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLIDING THOSE OF MERCHANT-ABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN, EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RAGIOSHACK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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